INTERNATIONAL SEARCH REPORT

ational Application No PCT/DE 02/02063

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 H04L25/03 H04L1/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols) $IPC \ 7 \quad H04L \quad H03M$

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, INSPEC, COMPENDEX

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Χ .	US 5 537 445 A (BLAKER DAVID M ET AL) 16 July 1996 (1996-07-16)	1,3-6,8, 10, 12-14, 17,18
	column 4, line 4 - line 22 column 4, line 34 - line 39 column 4, line 47 - line 51 column 7, line 1 - line 6; figure 2	·
X	US 6 195 782 B1 (SAWAN TONY E ET AL) 27 February 2001 (2001-02-27)	1,3-5, 10,12, 13,17,18
A	column 3, line 9 - line 16 column 3, line 32 - line 37 column 7, line 38 - line 51 column 10, line 22 -column 11, line 14; figure 8	7 7

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X Further documents are listed in the continuation of box C.	Y Patent family members are listed in annex.			
 Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier document but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed 	 "I" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. "&" document member of the same patent family 			
Date of the actual completion of the international search 6 September 2002	Date of mailing of the international search report 16/09/2002			
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Authorized officer Papantoniou, A			

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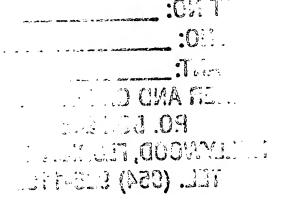
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C.(Continu	ation) DOCUMENTS CONSIDERED TO BE RELEVANT					
Category °	ry ° Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No.					
X	US 5 905 757 A (PISEK ERAN ET AL) 18 May 1999 (1999-05-18) column 1, line 10 - line 21 column 2, line 35 - line 40 column 3, line 9 - line 17 column 3, line 29 - line 40 column 4, line 19 - line 25 figure 1		1,3-6,9,' 10, 12-14, 17,19			
X	figure 1 US 5 539 780 A (DUTKIEWICZ MAREK) 23 July 1996 (1996-07-23) column 3, line 50 -column 4, line 5; figure 2		1,10			

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